

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of All Pending Claims

1. (currently amended) A system for providing location-based messaging, comprising:
 - a communications network;
 - a mobile handheld device including for communicating with the communications network, the mobile handheld device comprising:
 - a transceiver for wireless communications with the communications network;
 - a GPS receiver circuit for receiving location information for a location of the mobile handheld device;
 - a display;
 - an antenna;
 - a memory circuit in which are programmed a for storing at least one target location, at least one range area centered on the target location, a target location and a at least one target message for the at least one target location, and
 - a user input device for inputting the at least one target message;
 - a determining circuit that determines a connected to the GPS receiver circuit, the determining circuit for determining the location of the mobile handheld device from utilizing the location information via the antenna, from the GPS receiver; and
 - a display for displaying the at least one target message if the determined location of the mobile handheld device is within the at least one range area.
 - wherein, if the determining circuit determines that the determined location of the mobile handheld device is within the range area that is centered on the target location, then the display displays the target message.

2. (currently amended) A mobile wireless communications device that provides location-based responses, the mobile wireless communications device in communication with a positioning system, and is in communication with a positioning system, the mobile wireless communications device comprising:

an antenna for receiving location information from the positioning system;

a memory unit ~~in which are programmed~~ for storing at least one target location; a target range area centered on the at least one target location, ~~a target location and a~~ at least one target response corresponding to the at least one target location;

a user input device for inputting the at least one target location and the at least one target response; and

a determining unit that determines controller connected to the antenna and the memory unit, the determining unit for determining a location of the mobile wireless communications device from utilizing the location information received from the positioning system via the antenna, the controller determining whether the determined location is within the range area;

an output unit for outputting the at least one target response wherein, if the determining unit controller determines that the determined location of the mobile wireless communications device is within the target range area that corresponds to the target location, then the mobile wireless communications device provides the target response corresponding to the target location.

3. (original) The mobile wireless communications device according to claim 2, wherein the positioning system includes a global positioning system (GPS).

4. (original) The mobile wireless communications device according to claim 2, wherein the positioning system includes a wireless communications network.

5. (original) The mobile wireless communications device according to claim 2, wherein the positioning system includes a cellular communications network.

6. (original) The mobile wireless communications device according to claim 2, wherein the mobile wireless communications device is a cellular phone.

7. (original) The mobile wireless communications device according to claim 2, wherein the mobile wireless communications device is a wireless handheld communications device, a laptop computer with a wireless modem, a pager or a personal digital assistant (PDA).

8. (currently amended) The mobile wireless communications device according to claim 2,
wherein the target range area is programmed as a two-dimensional shape, and
wherein the at least one target location is located inside the two-dimensional shape.

9. (currently amended) The mobile wireless communications device according to claim 2,
wherein the target range area is programmed as a three-dimensional space, and
wherein the at least one target location is located inside the three-dimensional space.

10. (original) The mobile wireless communications device according to claim 2, wherein the target range area is time sensitive.

11. (currently amended) The mobile wireless communications device according to claim 2, wherein the output unit is a display for the target response includes displaying the at least one target response ~~a message on a display of the mobile wireless communications device.~~

12. (currently amended) The mobile wireless communications device according to claim 2, wherein the output unit is a speaker for sounding the at least one target response,

wherein the at least one target response includes providing at least one of is a beeping sound, musical notes and or a vocal sound.

13. (currently amended) The mobile wireless communications device according to claim 2, wherein the at least one target response includes e-mailing a programmed message from the mobile wireless communications device to a programmed destination.

14. (currently amended) The mobile wireless communications device according to claim 2, wherein the at least one target response includes generating a visual alert on the mobile wireless communications device.

15. (currently amended) The mobile wireless communications device according to claim 2, wherein the at least one target response includes changing a level of a control parameter of the mobile wireless communications device.

16. (original) The mobile wireless communications device according to claim 15, wherein changing a level of a control parameter of the mobile wireless communications device includes lowering a volume of a ringing device of the mobile wireless communications device.

17. (currently amended) The mobile wireless communications device according to claim 2, wherein the at least one target response includes switching from a first mode to a second mode of the mobile wireless communications device.

18. (original) The mobile wireless communications device according to claim 17,
wherein the first mode is a ringing mode, and
wherein the second mode is a vibrating mode.

19. (currently amended) The mobile wireless communications device according to claim 2, wherein the at least one target response includes at least two responses selected

from the group of responses consisting of: displaying a message on a display of the mobile wireless communications device, generating a beeping sound ~~by~~ on a speaker of the mobile wireless communications device, generating musical notes on the speaker by the mobile wireless communications device, generating a vocal sound on the speaker by the mobile wireless communications device, e-mailing a programmed message from the mobile wireless communications device to a programmed destination, generating a visual alert on the mobile wireless communications device, changing a level of a control parameter of the mobile wireless communications device, and switching from a first mode to a second mode of the mobile wireless communications device.

20. (currently amended) The mobile wireless communications device according to claim 2, wherein the at least one target location is a plurality of target locations.

21. (currently amended) The mobile wireless communications device according to claim 20,

wherein the target range area is a plurality of target range areas, each target range area of the plurality of target range areas corresponding to a target location of the plurality of target locations ~~at least one target range area, and~~

~~wherein each target location corresponds to a respective target range area.~~

22. (currently amended) The mobile wireless communications device according to claim 20,

wherein the at least one target response is a plurality of target responses, each target response of the plurality of target responses corresponding to a target location of the plurality of target locations ~~at least one target response, and~~

~~wherein each target location corresponds to at least one respective target response.~~

23. (currently amended) A mobile wireless communications device that provides

~~location-based responses and is in communication with a positioning system, the mobile wireless communications device comprising:~~

~~an antenna for wireless communications with a wireless network;~~

~~a positioning system for outputting location information;~~

~~a memory unit in which are programmed for storing a range area, a target location and a target message;~~

~~a user input for inputting the range area, the target location and the target message; and~~

~~a determining unit that determines a location of the mobile wireless communications device from the location information received from the positioning system; via the antenna, and~~

~~an output device for outputting the target message wherein, if the determining unit determines that the determined location of the mobile wireless communications device is outside of the target range area that corresponds to the target location, then the mobile wireless communications device provides the target response corresponding to the target location.~~

24. (currently amended) A method for providing a user of a mobile wireless device location-based messaging, comprising the steps of:

programming a target location, a target range area and a target message into a mobile wireless device utilizing a user input of the mobile wireless device, the target range area and the target message corresponding to the target location;

receiving location information via an antenna of the mobile wireless device;

determining a location of the mobile wireless device based on the location information; and

displaying the target message if the determined location falls within the target range area of the target location.

25. (currently amended) The method according to claim 24, further comprising the step of:

providing the user an option of deleting the displayed target message after acknowledging the displayed target message.

26. (currently amended) The method according to claim 24, further comprising the step of:

providing the user an option of disabling the target message corresponding to the displayed target message if the displayed target message is not to be deleted.

27. (original) The method according to claim 26, wherein the step of disabling the target message includes the step of disabling the target message in accordance with a time parameter.

28. (original) The method according to claim 26, wherein the step of disabling the target message includes the step of disabling the target message as long as the mobile wireless device remains within the target range area corresponding to the displayed target message.

29. (currently amended) A method for providing a user of a mobile wireless communication device location-based responses, comprising the steps of:

(a) programming a target location, a target range area and a target response ~~into~~ a utilizing a user input of the mobile wireless communications communication device, the target range area and the target response corresponding to the target location;

(b) receiving location information from a GPS system ~~via an antenna~~ of the mobile wireless communication device;

(c) determining a location of the mobile wireless communications device based on the location information utilizing a controller of the mobile wireless communication device; and

(d) providing the target response on an output unit of the mobile wireless communication device if the determined location falls within the target range area of the target location.

30. (original) The method according to claim 29,
wherein the target location is a plurality of target locations,
wherein the target range area is at least one target range area,
wherein the target response is at least one target response, and
wherein each of the target locations is associated with at least one
corresponding target range area and at least one corresponding target response.
31. (currently amended) The method according claim 30 29, further comprising the
step:
(e) repeating step (d) for each of the target locations of the plurality of target
locations.
32. (currently amended) The method according to claim 31, further comprising the step:
repeating steps (b), (c), (d) and (e) for a the plurality of target locations of the
mobile wireless communication ~~communications~~ device.
33. (currently amended) The method according to claim 29, wherein the step (a)
includes the step of storing a present location of the mobile wireless communication
~~communications~~ device as the target location if the mobile wireless communication
~~communications~~ device is presently at the target location.
34. (currently amended) A system for providing location-based messaging, comprising:
means for a user of a wireless device to program ~~programming~~ a target location,
a target range area and a target message into the ~~a mobile~~ wireless device, the target
range area and the target message corresponding to the target location;
means for receiving location information from a location unit within the wireless
device; means for determining a location of ~~a mobile handheld~~ the wireless device
based on the location information; and
means for displaying the target message to the user if the determined location

falls within the target range area of the target location.

35. (currently amended) A system for providing location-based responses to a user of a wireless device, comprising the steps of:

means for the user to program ~~programming~~ a target location, a target range area and a target response into ~~a mobile~~ the wireless ~~communications~~ device, the target range area and the target response corresponding to the target location;

means for wirelessly receiving location information into a GPS device of the wireless device;

means for determining a location of the mobile wireless communications device based on the location information; and

output means of the wireless device for providing the target response to the user if the determined location falls within the target range area of the target location.